AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-15 (cancelled)

16. (new) Arrangement of at least one heat-insulation layer (3) on a carrier body (2) for preventing heat transfer between the carrier body (2) and a surrounding area (7) of the carrier body (2), where
- the heat-insulation layer (3) displays at least one luminescent substance which can be excited with the aid of excitation light having a specific excitation wavelength to emit a luminescent light having a specific luminescence wavelength, and where
- at least one further heat-insulation layer (5) is present which is essentially free of the luminescent substance, characterized in that
- the further heat-insulation layer (5) is essentially opaque with respect to the excitation light for exciting the emission of luminescent light and/or with respect to the luminescent light of the luminescent substance.

17. (new) Arrangement according to claim 16, where the heat-insulation layer (3) is arranged between the carrier body (2) and the further heat-insulation layer (5) in such a way that the luminescent light of the luminescent substance can essentially only reach the surrounding area (7) of the carrier body (2) through apertures (6) in the further heat-insulation layer (5).

18. (new) Arrangement according to claim 16, where the luminescent substance displays at least one metal oxide with at least one trivalent metal A.

19. (new) Arrangement according to claim 16, where the luminescent substance displays an activator selected from the cerium and/or europium and/or dysprosium and/or terbium group for exciting the emission of the luminescent light.

20. (new) Arrangement according to claim 19, where the activator is contained in the luminescent substance in a proportion of up to 10 mol%.

21. (new) Arrangement according to claim 18, where the metal oxide comprises a mixed oxide selected from the perovskite group with the empirical formula $AA'O_3$ and/or pyrochlore group with the empirical formula $A_2B_2O_7$, where A' comprises a trivalent metal and B comprises a tetravalent metal.

22. (new) Arrangement according to claim 21, where the trivalent metal A and/or the trivalent metal A' comprises a rare earth element Re.

23. (new) Arrangement according to claim 22, where the trivalent metal A and/or the trivalent metal A' comprises a rare earth element selected from the lanthanum and/or gadolinium and/or samarium group.

24. (new) Arrangement according to claim 21, where the perovskite comprises a rare earth aluminate.

25. (new) Arrangement according to claim 24, where the empirical formula of the rare earth aluminate comprises $Gd_{0,25}\,La_{0,75}\,A10_3$.

26. (new) Arrangement according to claim 21, where the pyrochlore is selected from the rare earth hafnate and/or rate earth titanate and/or rare earth zirconate group.

27. (new) Arrangement according to claim 26, where the rare earth zirconate is selected from the gadolinium zirconate and/or samarium zirconate group.

28. (new) Arrangement according to claim 26, where the rare earth hafnate comprises lanthanum hafnate.

29. (new) Arrangement according to claim 16, where the carrier body comprises a component of an internal combustion engine.

30. (new) Arrangement according to claim 29, where the internal combustion engine comprises a gas turbine.

31. (new) Arrangement according to claim 17, where the luminescent substance displays at least one metal oxide with at least one trivalent metal A.

32. (new) Arrangement according to claim 19, where the metal oxide comprises a mixed oxide selected from the perovskite group with the empirical formula $AA'O_3$ and/or pyrochlore group with the empirical formula $A_2B_2O_7$, where A' comprises a trivalent metal and B comprises a tetravalent metal.

33. (new) Arrangement according to claim 20, where the metal oxide comprises a mixed oxide selected from the perovskite group with the empirical formula $AA'O_3$ and/or pyrochlore group with the empirical formula $A_2B_2O_7$, where A' comprises a trivalent metal and B comprises a tetravalent metal.